1885MNRAS..45..267.

Papers read before the Society from February 1884 *to February* 1885.

1884.

Mar. 14. Variation in the light of *Neptune*. Maxwell Hall.

Note on Professor Adams's paper in the *Monthly Notices* for December 1883. E. J. Stone.

Additional note on the change of the unit of time. Professor A. Cayley.

Spectroscopic observations of Comet Pons-Brooks. Dr. N. de Konkoly.

Spectroscopic observations of the red-coloured sky at sunset. Dr. N. de Konkoly.

Electric illumination of spectroscope micrometers. Dr. N. de Konkoly.

On a new colorimeter, serving as a spectral photometer. R. de Kövesligethy.

Some remarks on the spectroscopic determination of the motions of Stars in the line of sight. R. de Kövesligethy.

Remarks on Major-General Tennant's paper "On the change in the adopted unit of time." Professor J. C. Adams.

A general law of Planetary and Cometary motion in the Solar System. Professor C. V. Zenger.

Observations of occultations of Stars by the Moon, and of phenomena of *Jupiter's* Satellites made at the Davidson Observatory, San Francisco, and at Table Mount Station, California. Geo. Davidson.

Remarks on Mr. Hilger's illumination of micrometers by vacuum tubes. Dr. N. de Konkoly.

Observations of Sun-spot spectra in 1883. Rev. S. J. Perry.

Phenomena of *Jupiter's* satellites observed at Stonyhurst in 1883. Rev. S. J. Perry.

Sextant observations of Pons's Comet. Capt. W. L. Rosseter.

Observations of Pons's Comet made at the United States Naval Observatory, Washington. W. T. Sampson and E. Frisby.

The new Comet of 1884 January 12. N. R. Pogson.

Observations of Comet *b* 1883 (Pons-Brooks), made at Vizagapatam. A. V. Nursingrow.

Questions respecting Mr. Stone's theory of a change in the mean Solar day. Professor S. Newcomb.

1885MNRAS..45..267.

Remarks on the value of the secular acceleration of the Moon's motion derived from observation. Professor S. Newcomb.

On the necessary distinction in practical astronomy between the true mean Solar day and the mean day adopted, from time to time, in the construction of our Astronomical Tables, and in the comparison of these tables with observations. E. J. Stone.

Sextant observations of Comet *b* 1883 (Pons-Brooks), made at Monte Video. Rev. S. S. O. Morris.

Occultations observed at Forest Lodge, Maresfield. Capt. W. Noble.

Note on the Transit of the fourth Satellite of *Jupiter*, 1884 March 12. E. J. Spitta.

Note on the determination of the Planes of the Orbits of *Jupiter's* Satellites. A. Marth.

Remarques sur les "Notes on Nyrén's determination of the constant of aberration," de M. Gill. M. Nyrén.

Observations of the occultation of *Venus* by the Moon, made at the Royal Observatory, Greenwich, 1884 February 29. Communicated by the Astronomer Royal.

On an instance of change of personality in observing position-angles of Double Stars, and on the orbit of *α Centauri*. A. M. W. Downing.

Suggestions for improvements in the construction of large Transit Circles. A. A. Common.

The parallax of *α Tauri*. Professor O. Struve.

April 9. A method for clearing a lunar distance. J. Merrifield.

Notes on Nyrén's determination of the constant of aberration. David Gill.

Observations of Comet *a* 1884, made at Windsor, New South Wales. J. Tebbutt.

Some remarks on the chain of Meridian distances measured around the earth by H.M.S. "Beagle," between the years 1831 and 1836. Professor A. Auwers.

The radiant points of fireballs. W. F. Denning.

A new dark field micrometer, and electric illumination of Equatorial at Melbourne. R. L. J. Ellery.

Observations of Comet Ross, made at the Observatory, Melbourne. R. L. J. Ellery.

Occultations of λ *Geminorum* and κ *Cancri*. Henry Pratt.

Abnormal appearance of *Jupiter's* Satellite iv., while in Transit on March 12. Henry Pratt.

May 9. Elements of the Orbit of Comet *a* 1884. J. Tebbutt.

The Orbit of Pons's Comet. Dr. J. Morrison.

Observations made at the United States Naval Observatory, Washington. Professor A. Hall.

The motion of *Hyperion*. Professor A. Hall.

1885MNRAS..45..267.

Sextant observations of Comet Pons-Brooks, made on board the ship "Earnock." Capt. G. F. Parson.

Observations of the companion of *Sirius*, made at the Dearborn Observatory, Chicago. Professor G. W. Hough and S. W. Burnham.

On the occultation of κ *Cancri*. Dr. C. L. Prince.

On the corrections required by Hansen's "Tables de la Lune." E. Neison.

Note on Dr. N. de Konkoly's remarks on Mr. Hilger's illumination of micrometers by vacuum tubes. Rev. S. J. Perry.

Note on the eclipse of Thales. J. Maguire.

Sextant observations of Comet Pons-Brooks, made on board the ship "Superb," January and February 1884. Capt. D. W. Barker.

Sextant observations of Comet Pons-Brooks, January 1884. Capt. A. S. Thomson.

On the proper motions of forty Stars in the Pleiades, both absolute and relative. Professor Pritchard.

Observations of *Mars* at the opposition of 1884. E. B. Knobel.

Suggestions for the Improvement of the Transit Circle. Dr. R. Copeland.

The observations of the Moon made at the Radcliffe Observatory during the year 1883, and a comparison of the results with the tabular places from Hansen's Lunar Tables. E. J. Stone.

Note on a method of reducing the friction of the polar axis of a large telescope. A. A. Common.

June 13. Fourth catalogue of micrometrical measures of Double Stars made at the Temple Observatory, Rugby. G. M. Seabroke.

On a new Variable Star in *Monoceros*. J. E. Gore.

On the relative proper motions of 40 Stars in the Pleiades determined from micrometric and meridian observations. Professor C. Pritchard.

The Nebula in Orion. R. S. Newall.

Notes on Mr. Stone's explanation of the errors of Hansen's Lunar Tables. Professor S. Newcomb.

The apparent orbit of a Satellite of a superior planet. Dr. J. Morrison.

The physical features of *Saturn*. H. Pratt.

Ephemeris of the Satellite of *Neptune*, 1884–85. A. Marth.

Ephemerides of the Satellites of *Saturn*, 1884–85. A. Marth.

On Professor Newcomb's empirical corrections as a means of restoring an agreement between theory and observation in the case of the Moon. E. J. Stone.

1885MNRAS..45..267.

Faint Stars near *Alcyone* and near β^1 and β^2 *Capricorni*. A. A. Common.

Note on the cause of the blurred patches in instantaneous photographs of the Sun. A. C. Ranyard.

Nov. 14. Observations of occultations of Stars by the Moon, 1883–84, and of phenomena of *Jupiter's* Satellites, 1884, made at the Radcliffe Observatory, Oxford. Communicated by E. J. Stone.

Answers to Professor Newcomb's questions on changes in the adopted unit of mean time. E. J. Stone.

Apparent places of Comet II. (Ross) 1883. J. Tebbutt.

Lateral astronomical refraction. H. M. Paul.

Sur une inégalité lunaire à longue période. C. Gogou.

Observations of the Comet of 1812 (Pons-Brooks) at its return to perihelion in 1884. J. Tebbutt.

Ephemerides of the Satellites of *Saturn*, 1884–85 (continuation). A. Marth.

Ephemerides for physical observations of *Jupiter*, 1884–85. A. Marth.

Sextant observations of Comet Pons-Brooks made on board the ship "British Envoy." Capt. P. Holdich.

Abnormal obscurity of the Moon in the late eclipse. Rev. S. J. Johnson.

The total eclipse of the Moon, 1884 October 4. W. F. Denning.

Observations of Comet Barnard 1884. J. Tebbutt.

Occultations of Stars by the Moon observed at the Davidson Observatory, San Francisco. G. Davidson.

Observations of Comet 1884 (Barnard), made at the Royal Observatory, Cape of Good Hope.

Approximate elements of Comet, 1884 (Barnard). W. H. Finlay.

The occulting eye-piece. E. J. Spitta.

A remarkable configuration of Stars in the Milky Way detected by photography. Rev. T. E. Espin.

On the periodic time of α *Centauri*. E. B. Powell.

A photometric comparison of the light transmitted by certain refracting and reflecting telescopes of equal aperture. Professor C. Pritchard.

Note on a comparison of the photometric magnitudes of the same Stars observed at Harvard College and at the University Observatory, Oxford. Professor C. Pritchard.

Observations of Stars occulted by the Moon during the eclipse of 1884 October 4. Communicated by Professor Pritchard.

The proper motions of the 460 Stars given in the R.A.S. *Memoirs*, vol. xxiii., when the places of Auwers's re-reduction of Bradley's observations are

1885MNRAS..45..267.

adopted instead of Bessel's, with notes on the proper motion of μ *Piscium*. E. J. Stone.

Total eclipse of the Moon, 1884 Oct. 4. Communicated by E. J. Stone.

Occultations of Stars observed at Dun Echt during the total lunar eclipse of Oct. 4, 1884. Dr. R. Copeland.

Total eclipse of the Moon, October 4, 1884. Rev. S. J. Perry.

Note on a method of giving long exposures in astronomical photography. A. A. Common.

Note on stellar photography. A. A. Common.

The orbit of Barnard's Comet 1884. Dr. J. Morrison.

Occultations observed at Harrow during the total eclipse of the Moon, 1884 October 4. Lieut.-Col. Tupman.

On a new solar eye-piece. A. Hilger.

Dec. 12. Observations of Comet *c* 1884 (Wolf), made at the Royal Observatory, Greenwich. Communicated by the Astronomer Royal.

On the numerical value of the coefficient of Neison's long inequality in the Moon's motion, due to the action of Mars. [Extract from a letter to Professor Adams.] C. Gogou.

On systematic errors in the reading of the circle-microscopes of the Cape Transit Circle. David Gill.

Note upon the Right Ascensions of certain standard polar Stars. Professor T. H. Safford.

Data for a graphical representation of the Solar System. A. Marth.

Spectroscopic observations made at the Earl of Crawford's Observatory, Dun Echt. R. Copeland.

Observations of Comets Pons-Brooks and Ross, 1884. A. B. Biggs.

The long duration of meteor radiant points. W. F. Denning.

1885.

Jan. 9. Ephemeris for finding the positions of the Satellites of *Uranus*, 1885. A. Marth.

Note on Professor Pritchard's comparison of the light transmitted by refracting and reflecting telescopes. W. S. Franks.

Occultations of Stars by the Moon, and phenomena of the Satellites of *Jupiter* and *Saturn*, observed at Mr. Edward Crossley's Observatory, Bermerside, Halifax, in the year 1884. J. Gledhill.

Observations of Stars occulted by the Moon during the eclipse of 1884 October 4. E. J. Spitta.

Note on an observation of *Saturn*, November 23, 1884. E. J. Spitta.

1885MNRAS..45..267.

On screw-wear as affecting the N.P.D. of the Cape Catalogue for 1880. E. J. Stone.

The observations of the Moon made at the Radcliffe Observatory during the year 1884, and a comparison of the results with the tabular places from Hansen's Lunar Tables. E. J. Stone.

Note on the descriptions of two Stars in Ptolemy's Catalogue. E. B. Knobel.

Observations of occultations of Stars by the Moon, and of phenomena of *Jupiter's* Satellites, made at the Royal Observatory, Greenwich, in the year 1884. Communicated by the Astronomer Royal.

Note on the periodic time of α *Centauri*. A. M. W. Downing.

Observations of Comet *c* 1884 (Wolf), made at Stonyhurst College Observatory with the 8-inch telescope and ring micrometer. Rev. Ad. Müller.